

## Great Plains Cooperative Ecosystem Studies Unit Cooperative Agreement Modification

FUNDING AGENCY: National Park Service

MODIFICATION NO.: **GPCESU H6000A100J/0002**  
(to be administered by CESU coordinator)COOPERATIVE AGREEMENT NO.: **CA6000A0100**

FUNDING AMOUNT: \$30,025.00 (funding to expand and complete project)

INVESTIGATORS: Dr. Gary Beauvais and Dr. Brian Smith

Funding: 2107-NII (\$20,025.00) and 6288-0100-NNZ (\$10,000).

**PROJECT TITLE:** Herpetological Inventories at Devils Tower, Jewel Cave, and Scotts Bluff National Monuments, Mount Rushmore National Memorial Fort Laramie, Fort Union Trading Post, and Knife River Indian Villages National Historic Sites, the Missouri National Recreational River, and the Niobrara National Scenic Riverways and Data Entry at 13 National Park Units (title is amended to include Niobrara NSR field work and data entry work).

EFFECTIVE DATES: April 2002 through December 2004 (amended)

**PROJECT ABSTRACT:** The project will inventory herpetofauna (reptiles and amphibians) in 10 national park units in the northern Great Plains. The project will document species not previously documented at the parks, verify the presence of already documented species, and provide additional information on the relative abundance, distribution, and habitat use of the species. The project will populate herpetofauna data into the NPS database NPSpecies for the 13 parks in the Northern Great Plains Network.

This modification obligates FY03 funds to the project and amends the project. This modification obligates a total of \$30,025.00 to the project. These funds cover the balance of the project costs.

Of the total amount obligated under this modification, \$8,525.00 is to cover the balance of original project cost (original project cost was \$63,600.00). This modification also amends the original project by 1) including \$1,500.00 of data entry work to the project, 2) expanding the scope of the field inventories at the Missouri National Recreational River by \$10,000.00, 3) including work on the Niobrara National Scenic River at a cost of \$10,000, 4) by extending the project ending date to December 31, 2004, and by amending the project title to incorporate the new work (see amended title above). The amended work increases the total cost of the project by \$21,500.00 (new total is \$85,100.00). The amended work is fully described in attachments.

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**List of Key Words:** *herps, inventory, national parks, Northern Great Plains*

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Annual Report Received: \_\_\_\_\_ Final Report  
Received: \_\_\_\_\_

Publications on  
File: \_\_\_\_\_

(This Modification is subject to all the provisions included in the Cooperative Agreement, **dated 9/20/00**).

*Attach supporting material as necessary.*

ATTACHMENT #1  
(Amend Project by \$1,500.00 for Data Entry Work)

The project is amended to include \$1,500.00 worth of data entry work. Essentially the new work is: To use information collected by this project, along with other available information, to edit and populate the "Species Information" fields for herps in the NPS database NPSpecies. This work will be done for all 13 parks in the Northern Great Plains Network. The Principle Investigator will use their knowledge and best judgement, along with all other available information, to fill in all the fields in the Species Information module of NPSpecies for all herps documented at a park as well as for herps they expect to be there but are not yet scientifically documented. This work will be done in a local MS Access version of NPSpecies. The I&M Coordinator for the Northern Great Plains Network will supply the Principle Investigator with reports, data, and other relevant information on species presence and abundance. The product to be received is an MS Access database with the above fields filled in. The deadline for the work is September 30, 2004.

## ATTACHMENT #2

(Amend Project by \$10,000.00 for Field Work at Missouri National Recreational River)

**Missouri National Recreational River Herpetofauna Survey Budget**

<b>PERSONNEL HOURS:</b>	
<b>Activity</b>	<b>Spring 2004</b>
Time Area Constrained Searches (TACS)	48
Turtle Trap Set/Check	20
Cover Boards	24
Anuran Calling Surveys	12
Night Road Driving	25
Miscellaneous	10
<b>Total</b>	<b>139</b>

<b>BUDGET:</b>	
Investigators' Salary (139 hours)	\$4,170.00
Automated Recording Systems	\$1,812.00
Boat Use	\$1,000.00
Vehicle Use (\$0.365/mile)	\$443.00
Lodging	\$600.00
Per Diem	\$420.00
Misc. Supplies	\$250.00
Overhead (15%)	1305.00
<b>Total</b>	<b>\$10,000.00</b>

**Personnel Hours**

The personnel hours are for implementing methods outlined in the original project scope of work and the Northern Great Plains Inventory Study Plan.

**Supplies**

**Automated Recording Systems:** Four Model ARS-062001 "Frog Loggers" will be purchased from Bedford Technical Services to be used throughout the duration of 2003 and spring 2004.

**Miscellaneous Supplies:** Additional miscellaneous supplies, including office supplies, work gloves, film, film processing, field notebooks, gasoline for boat travel on the river, cassette tapes, and other supplies will total approximately \$200.00

**Mileage, Lodging, and Per Diem**

Mileage is based on Nebraska's rate of \$0.365/mile. We calculate an average round-trip mileage of 402 miles for two trips during spring 2004. We will spend 3 nights per trip at lodging facilities (2 investigators x approx. \$50.00/night ea.) and will use 6 days of per diem costs during survey trips (2 investigators x \$35.00/day).

**Boat Use:** Costs are for maintenance and repairs of a university-owned boat.

## ATTACHMENT #3

(Amend Project by \$10,000.00 for Field Work at Niobrara National Scenic Riverways)

**Niobrara National Scenic Riverways Herpetofauna Survey Budget**

<b>PERSONNEL HOURS:</b>	
<b>Activity</b>	<b>Year: 2003</b>
Time Area Constrained Searches (TACS)	45
Turtle Trap Set/Check	25
Cover Boards	38
Anuran Calling Surveys	32
Miscellaneous	40
<b>Total</b>	<b>180</b>

<b>BUDGET:</b>	<b>Year: 2003</b>
Investigators Salary (180 hours)	\$5,400.00
Vehicle Use (\$0.365/mile)	\$795.00
Lodging	\$1,000.00
Per Diem	\$1,050.00
Cover Boards	\$64.00
Misc. Supplies	\$191.00
Overhead (15%)	\$1,500.00
<b>Total</b>	<b>\$10,000.00</b>

**Personnel Hours**

Five visits will be made to NIOB for 3 days of surveying per visit. During these visits, a variety of inventory activities will be conducted, depending on the location and the climatic conditions. At minimum, all activity hours listed on the above table will be accomplished before the end of the 2003 field season. Investigator's salary = Total hours (180) x hourly rate of \$30.00/hr for a total of \$5,400.00. This amount includes compensation and reimbursements that may be paid to student interns if necessary. Miscellaneous hours include hours for preparing field materials (i.e. cover boards) as well as final data analysis and report writing.

**Supplies**

**Cover Boards:** Cover boards will be of limited use for this survey since much of the property along the riverway is privately owned. However, in areas where public access is granted, artificial cover will be used as an additional inventory method. We will use 2' x 2.5' boards of 3/8 inch plywood. A single 4' x 8' sheet can supply 6 boards of this size, and we will need 8 sheets to produce 48 cover boards, which should be sufficient to provide artificial cover in public areas. Eight sheets @ \$8.00 each = \$64.00.

**Miscellaneous Supplies:** Additional miscellaneous supplies, including office supplies, work gloves, film, film processing, field notebooks, cassette tapes for frog loggers, and other supplies will total approximately \$191.00

**Mileage, Lodging, and Per Diem**

Mileage is based on Nebraska's rate of \$0.365/mile. We calculate 2178 miles will be driven. We will spend 2 nights per trip at lodging facilities (10 nights x 2 investigators x approx. \$50.00/night ea. = \$1,000.00) and will use 15 days of per diem costs during survey trips (15 days x 2 investigators x \$35.00/day = \$1,050.00).